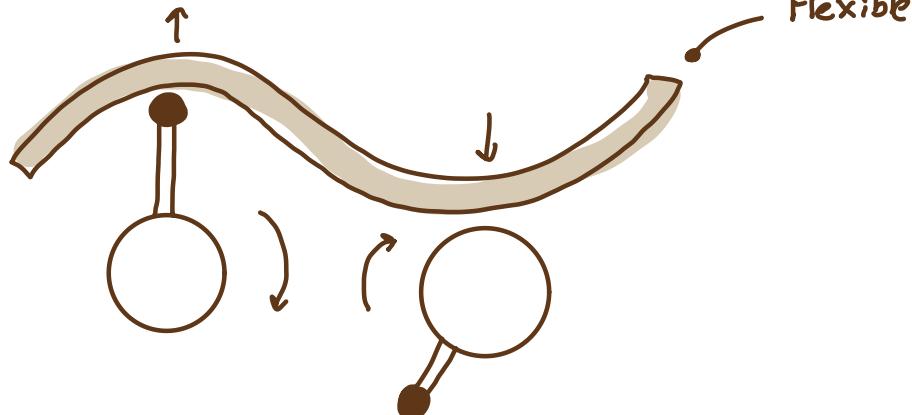


Original Three Designs

Mechanism
to facilitate
motion

①



Flexible

②



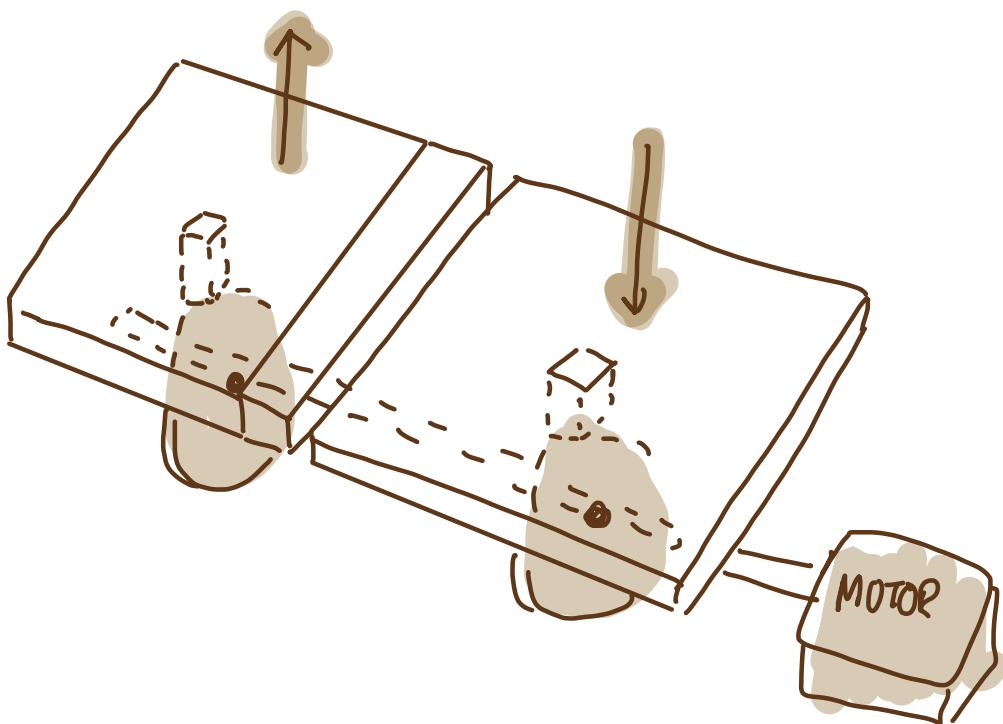
→ actual motorized
mechanism Unknown

↳ Rack & Pinion?

↳ doesn't rly account
for sharp turns

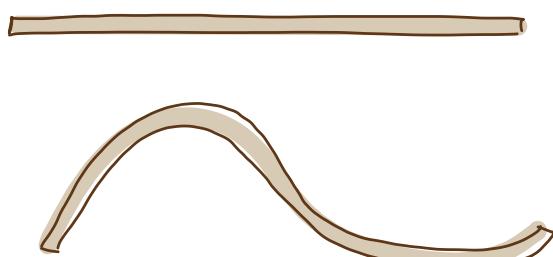
↳ Idea Scrapped

③



① NOTES ON DESIGN 1

Flexible portion



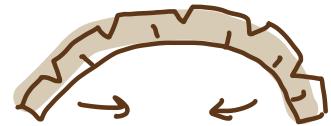
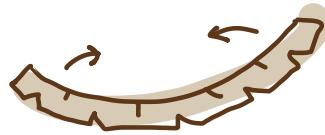
How to bend?



Slits

Best for manufacturing
(one print, less parts)

prob hardest to prototype



MATERIAL CHOICE

↳ flexible

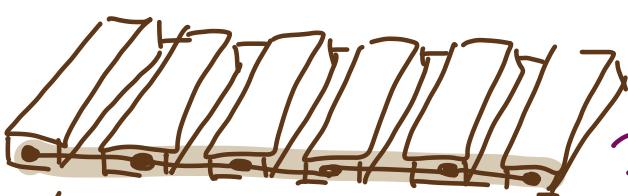
↳ durable



a)

Could also attach
individual bars together

* Smaller
spacing

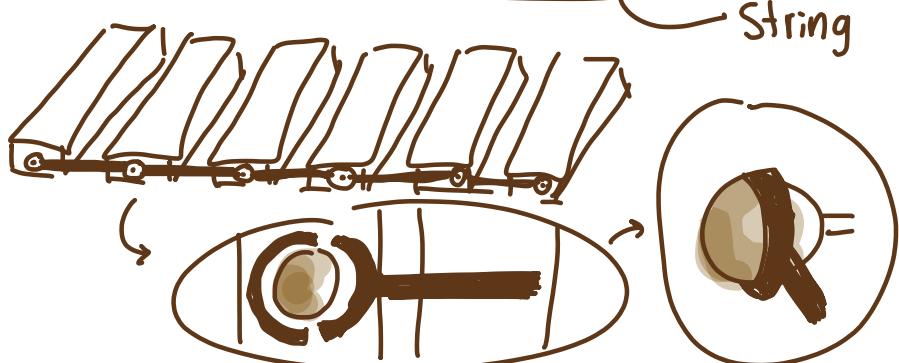


→ Thread
through
loops

b)

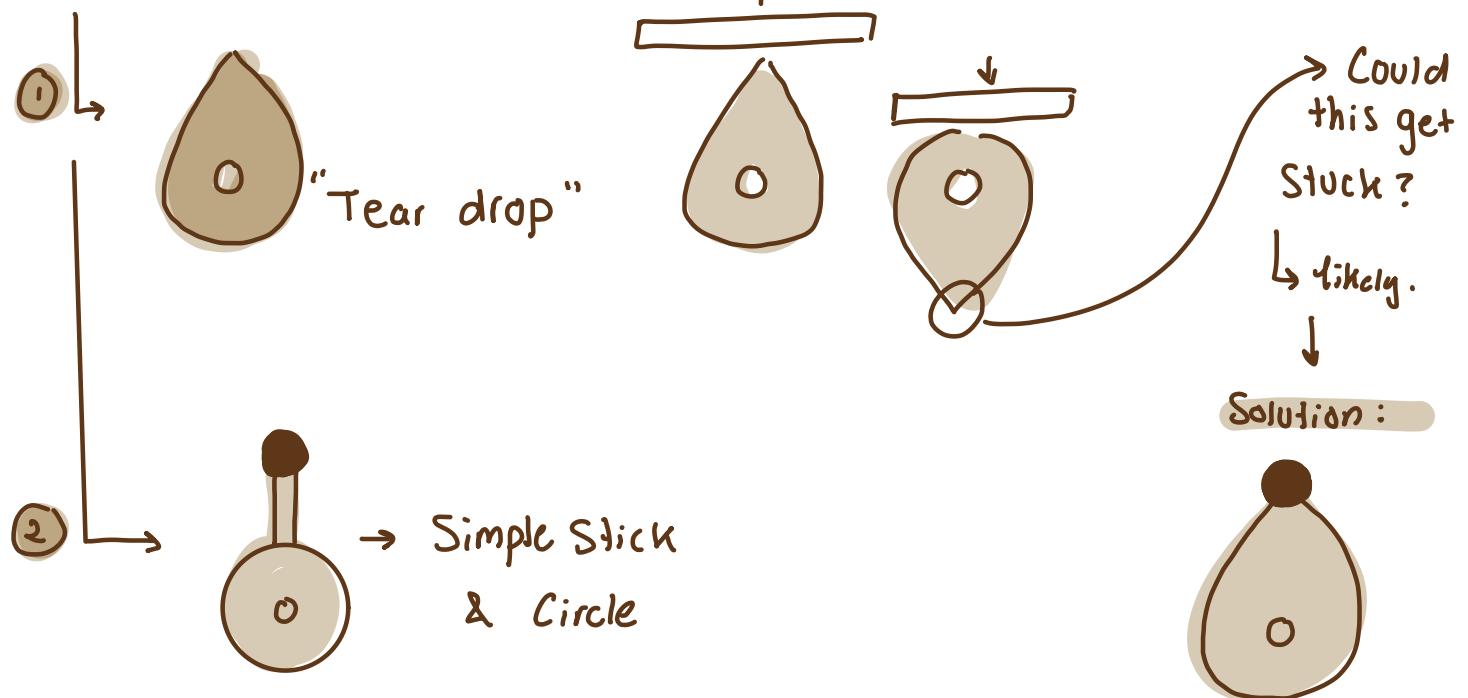


String

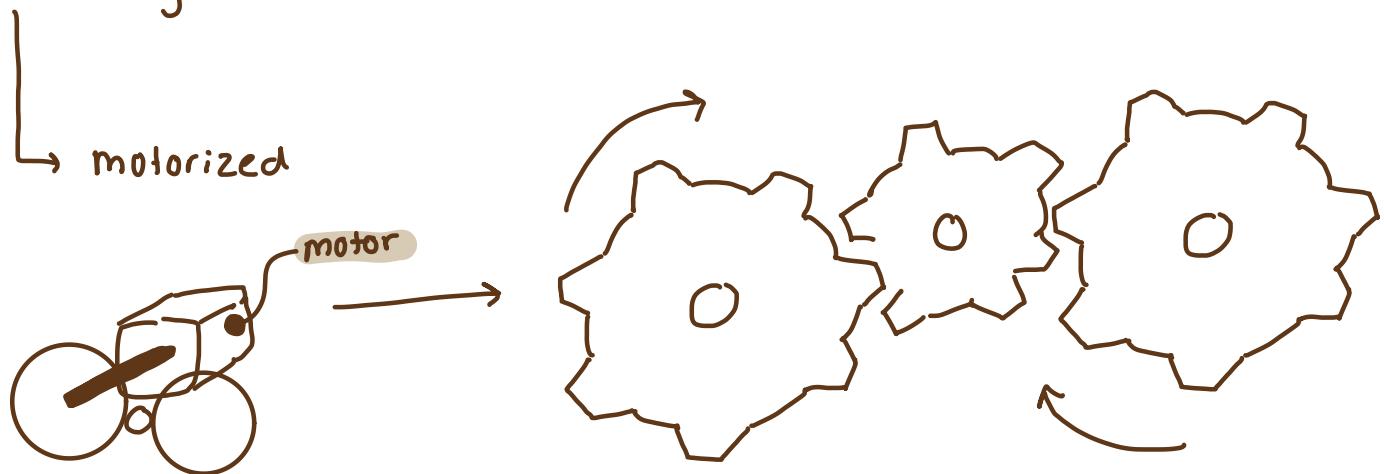


Ball & Socket

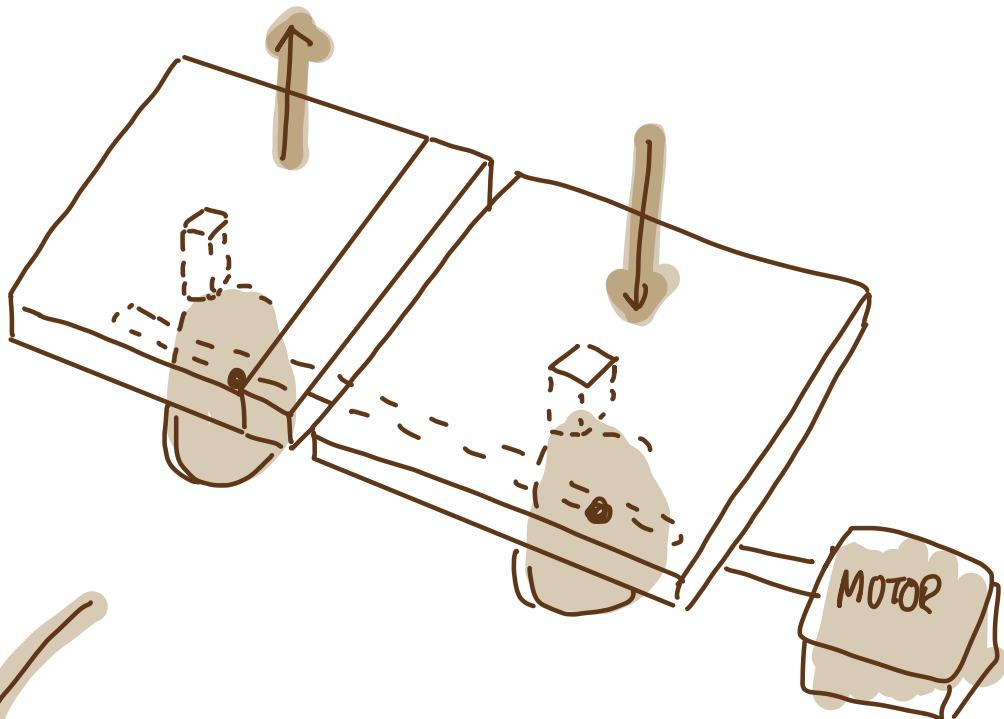
pushing the flexible parts



Facilitating movement



③ NOTES ON DESIGN 3



emphasizes most prominent parts of the "Worm" movement

↳ Two major peaks & troughs
→ using up/down

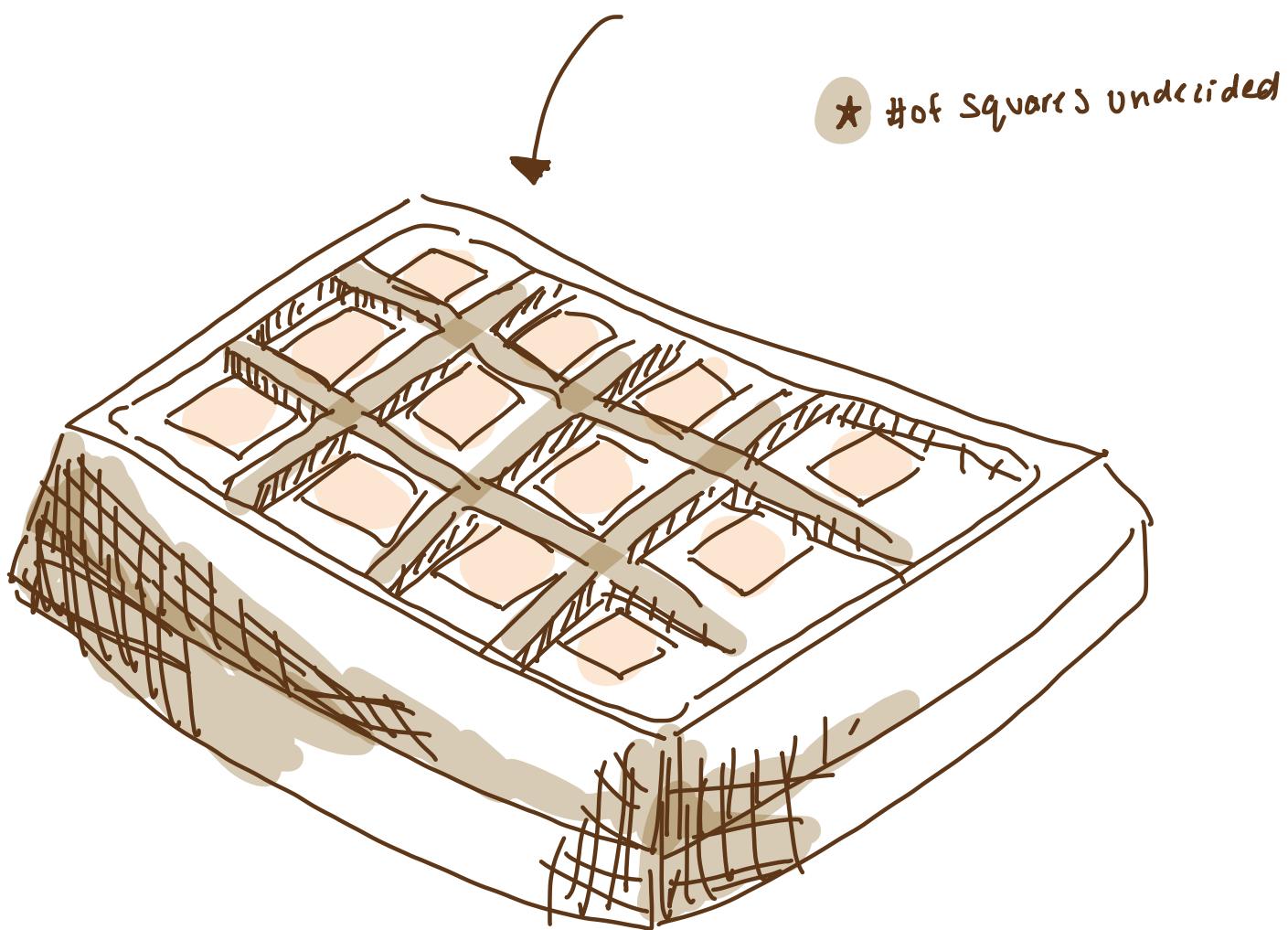


THOUGHT :

↳ to mimick bugs, in a salad it may be best to stray from trying to replicate one large movement. Instead, cover many smaller areas.

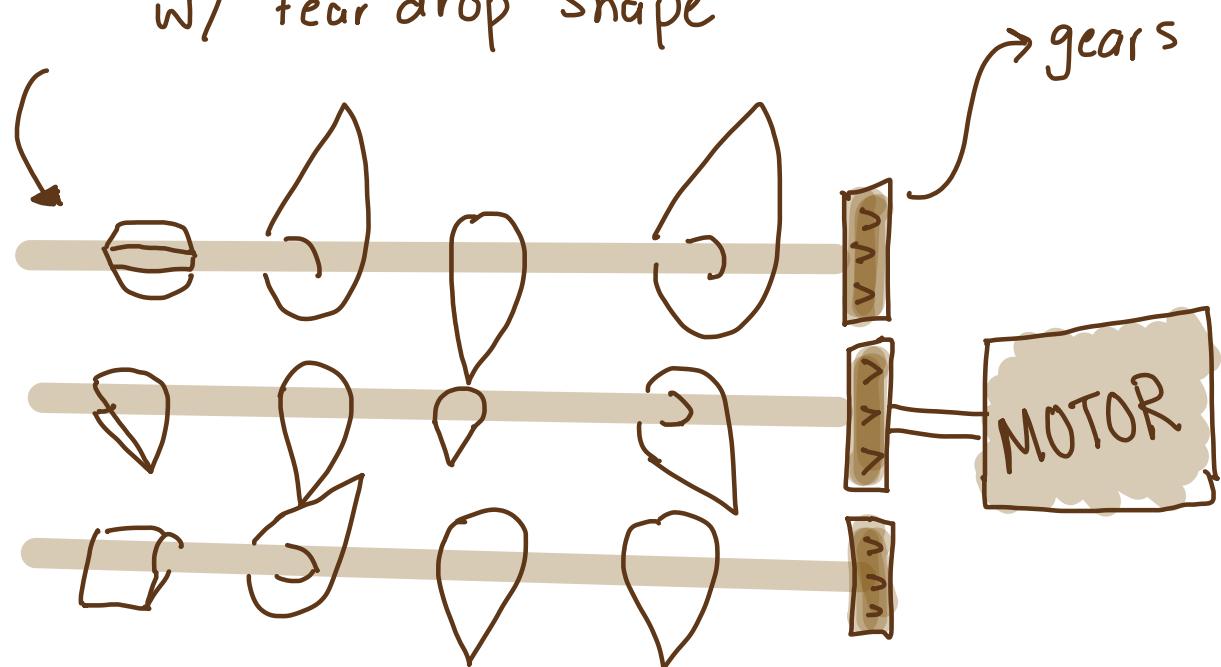


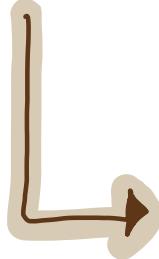
An edit on design ③



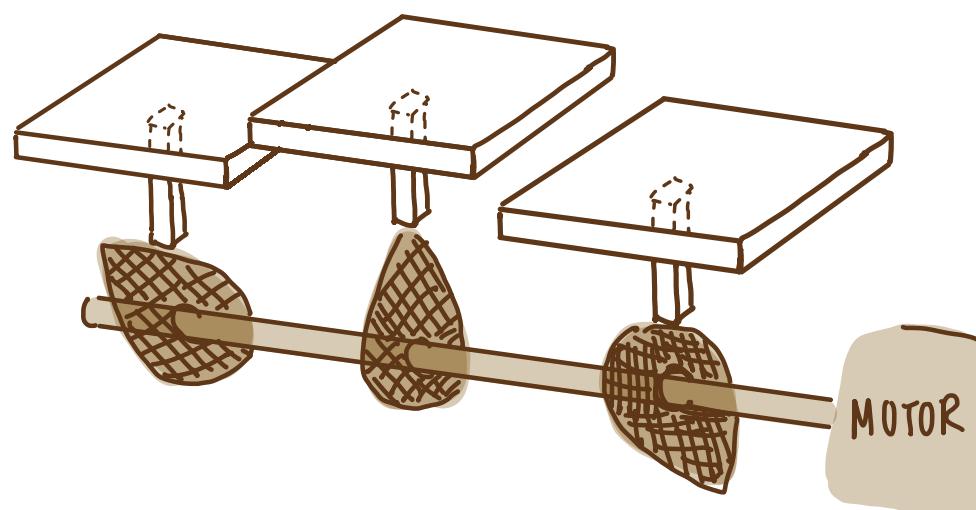
* #of squares undecided

3 Spinning rods rotated w/ motor & gear
w/ tear drop shape

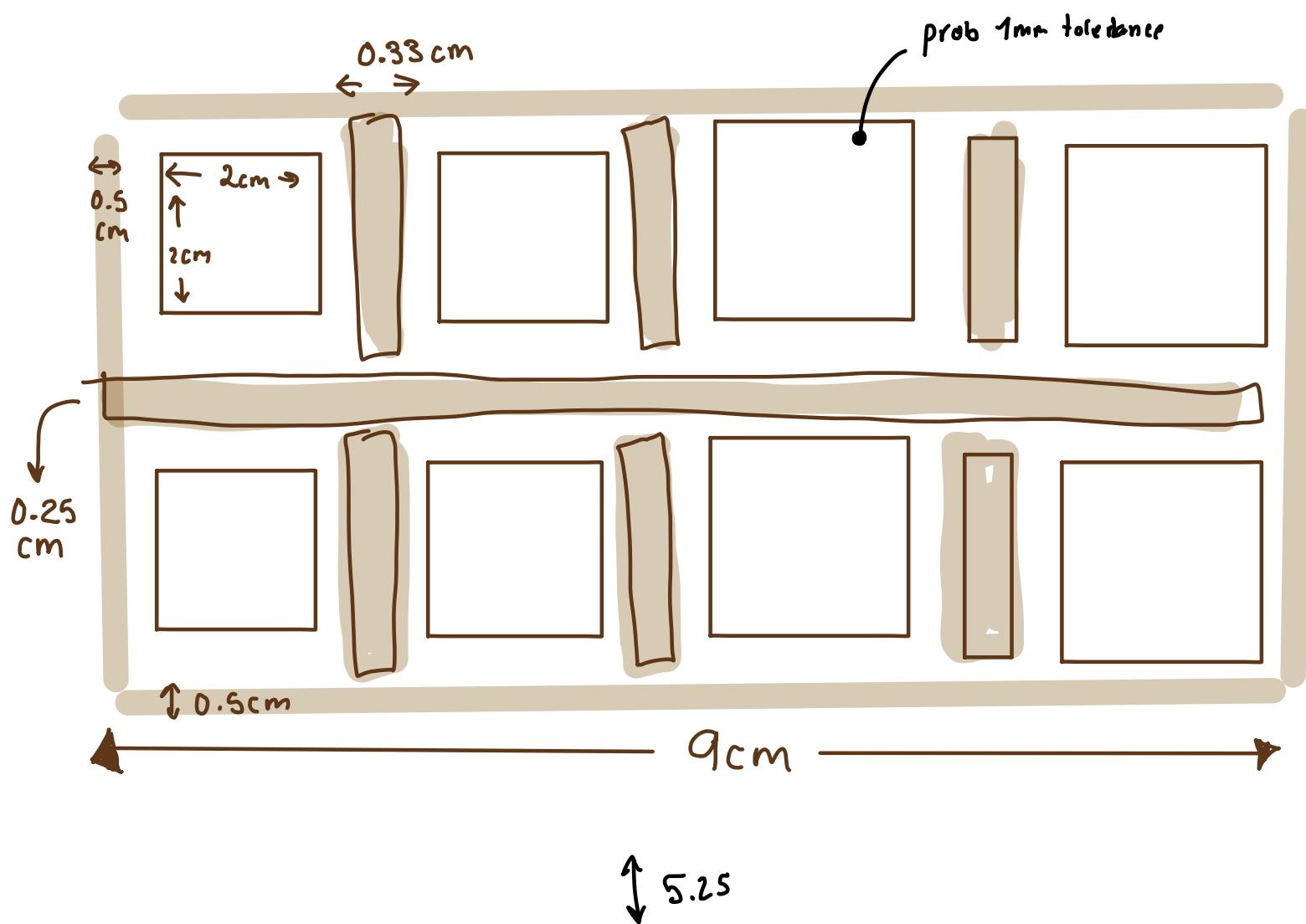




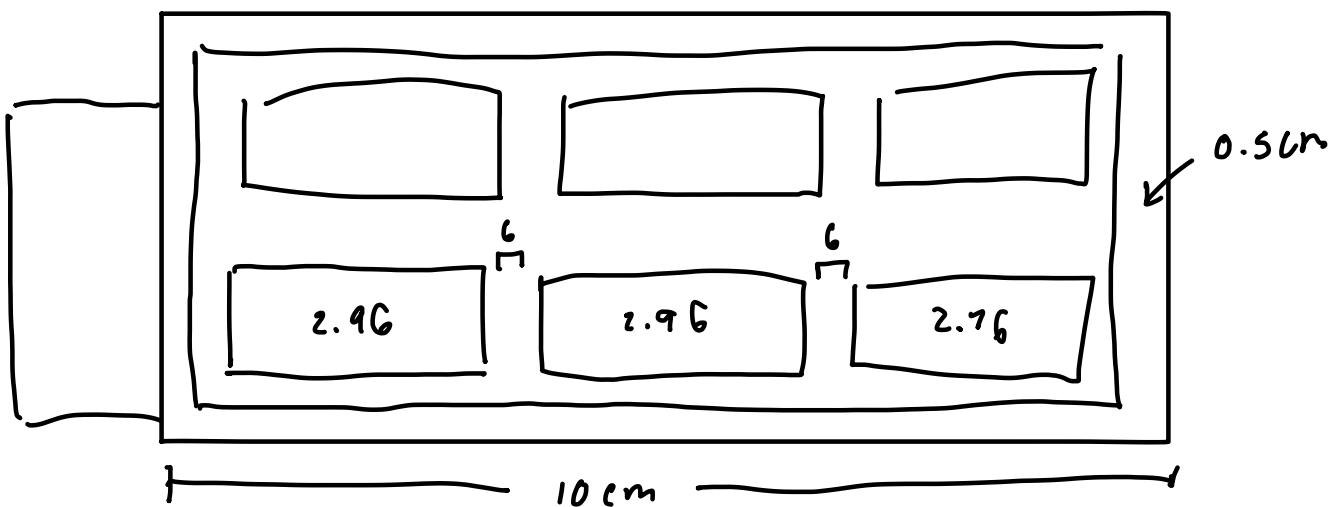
Eg of one Row



LAYOUT IDEA :-



Dimension fix ...



Electrical Component

